EU safety data sheet



Trade name: EOS StainlessSteel 254 Product no.: 9030-0007 Current version : 2.0.0, issued: 14.06.2022

Region: GB

1.1 **Product identifier** Trade name EOS StainlessSteel 254 Relevant identified uses of the substance or mixture and uses advised against 1.2 Relevant identified uses of the substance or mixture StainlessSteel powder for DMLS process in EOS M systems Uses advised against No data available. 1.3 Details of the supplier of the safety data sheet Address Electro Optical Systems Finland Oy Lemminkäisenkatu 36 20520 Turku FINLAND Telephone no. +358 (0) 20 765 9144 / 9147

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Fax no. +358 (0) 20 765 9144 7 9

Information provided by / telephone +49 (0) 89 / 893 36 - 0

Advice on Safety Data Sheet MSDSInfo@eos.info

1.4 Emergency telephone number

+49 (0) 89 / 893 36 - 0 (8 am - 5 pm) +49 (0) 89 / 893 36 - 151 (Mo - Thu: 9 am - 12 pm & 1 - 6 pm; Fr: 1 - 4 pm) (CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

```
Classification in accordance with Regulation (EC) No 1272/2008 (CLP)
Aquatic Chronic 3; H412
Carc. 2; H351
Skin Sens. 1; H317
STOT RE 1; H372
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Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



Signal word

Danger

Hazardous component(s) to be indicated on label:

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nickel powder; [particle diameter < 1 mm]

Hazard statement(s)	
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)
P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment

The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH). vPvB assessment

The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	iron			
	7439-89-6	-	50.00 - 52.00	wt%
	231-096-4			
	-			
	01-2119462838-24			
2	chromium			
	7440-47-3	-	>= 10.00 - < 25.00	wt%
	231-157-5			
	-			
•	01-2119485652-31			
3		ticle diameter < 1 mm]		
	7440-02-0	Aquatic Chronic 3; H412	>= 10.00 - < 25.00	wt%
	231-111-4	Carc. 2; H351		
	028-002-01-4	Skin Sens. 1; H317		
	01-2119438727-29	STOT RE 1; H372**		
4	manganese			
	7439-96-5	-	< 2.50	wt%
	231-105-1			
	-			
	01-2119449803-34			
5	copper			
	7440-50-8	Aquatic Acute 1; H400	< 2.50	wt%
	231-159-6	Aquatic Chronic 2; H411		
	-			
L	01-2119480154-42	and FULL phrases, pla and section 16		

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*,**,****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. If breathing has stopped, assist ventilation with a mechanical device. Take medical treatment.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** No data available.
- **4.3** Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media special powder against burning metal

Unsuitable extinguishing media Water; Carbon dioxide; ABC powder; Foam

5.2 Special hazards arising from the substance or mixture In the event of fire, the following can be released: Metal oxides

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Keep away from ignition sources.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

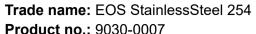
6.3 Methods and material for containment and cleaning up

Small quantities of spilled material may be collected dry or wet. In large quantities: Take up mechanically. When aspirators are used, make sure that they are equiped with efficient dust filtres (HEPA).

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage



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7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Avoid contact with skin and eyes. Avoid dust formation.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not inhale dust. Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Keep away from sources of ignition - refrain from smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect against mechanical damage.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

7.3 Specific end use(s)

No data available.

Incompatible products

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Substances to be avoided, see section 10.

No	Substance name	CAS no.		EC no.
1	chromium	7440-47-3	1	231-157-5
	List of approved workplace exposure limits (WELs) / E	EH40		
	Chromium			
	WEL long-term (8-hr TWA reference period)	0.5	mg/m³	
	2006/15/EC			
	Chromium Metal, Inorganic Chromium (II) Compounds an	d Inorganic Cl		mpounds (insoluble)
	WEL long-term (8-hr TWA reference period)	2	mg/m³	
2	nickel powder; [particle diameter < 1 mm]	7440-02-0		231-111-4
	List of approved workplace exposure limits (WELs) / E			
	Nickel & its inorganic compounds (except nickel tetracarb	onyl): water so	luble nickel com	npounds (as Ni)
	WEL long-term (8-hr TWA reference period)	0.1	mg/m³	
	Comments	Sk, Carc (nickel oxides and sulphides) Sen (nickel		
		sulphate)		
	List of approved workplace exposure limits (WELs) / E			
	Nickel & water insoluble compounds nickel compounds (a			
	WEL long-term (8-hr TWA reference period)	0.5	mg/m³	
	Comments		kel oxides and s	ulphides) Sen (nickel
		sulphate)		
3	manganese	7439-96-5		231-105-1
	2017/164/EU			
	Manganese and inorganic manganese compounds (as ma			
	WEL long-term (8-hr TWA reference period)	0,2 (Inhal)	mg/m³	
	2017/164/EU			
	Manganese and inorganic manganese compounds (as ma	1		
	WEL long-term (8-hr TWA reference period)	0,05 (Resp)	mg/m³	
	List of approved workplace exposure limits (WELs) / E			
	Manganese and its inorganic compounds (as Mn) Inhalab	le fraction		

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WEL long-term (8-hr TWA reference period) mg/m³ 0.2 List of approved workplace exposure limits (WELs) / EH40 Manganese and its inorganic compounds (as Mn) Respirable fraction WEL long-term (8-hr TWA reference period) 0.05 mg/m³ 7440-50-8 231-159-6 copper List of approved workplace exposure limits (WELs) / EH40 Copper fume WEL long-term (8-hr TWA reference period) 0.2 mg/m³ List of approved workplace exposure limits (WELs) / EH40 Copper dusts and mists Cu WEL short-term (15 min reference period) 2 mg/m³ WEL long-term (8-hr TWA reference period) 1 mg/m³

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC	; no
	Route of exposure	Exposure time	Effect	Value	
1	nickel powder; [particle diameter < 1 mm]		7440-02-	0	
		_		231-111-4	4
	dermal	Long term (chronic)	local	0.035	mg/cm²
	inhalative	Long term (chronic)	systemic	0.05	mg/m³
	inhalative	Long term (chronic)	local	0.05	mg/m³
	inhalative	Short term (acut)	local	11.9	mg/m³
2	copper			7440-50-	8
				231-159-	6
	dermal	Short term (acut)	systemic	273	mg/kg/day
	dermal	Long term (chronic)	systemic	137	mg/kg/day
	inhalative	Long term (chronic)	local	1	mg/m ³
	inhalative	Short term (acut)	local	1	mg/m ³

DNEL value (consumer)

No	Substance name	Substance name			no
	Route of exposure	Exposure time	Effect	Value	
1	nickel powder; [particle diameter < 1 mm]		7440-02-0 231-111-4		
	oral	Long term (chronic)	systemic	0.011	mg/kg/day
	oral	Short term (acut)	systemic	0.37	mg/kg/day
	dermal	Long term (chronic)	local	0.035	mg/cm ²
	inhalative	Long term (chronic)	systemic	60	ng/m³
	inhalative	Long term (chronic)	local	60	ng/m³
	inhalative	Short term (acut)	local	0.8	mg/m³
2	copper			7440-50-8 231-159-6	
	oral	Long term (chronic)	systemic	0.041	mg/kg/day
	dermal	Short term (acut)	systemic	273	mg/kg/day
	dermal	Long term (chronic)	systemic	137	mg/kg/day
	inhalative	Short term (acut)	local	1	mg/m ³
	inhalative	Long term (chronic)	local	1	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	nickel powder; [particle diameter < 1 mm]		7440-02-0	
			231-111-4	
	water	fresh water	7.1	µg/L
	water	marine water	8.6	µg/L



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	water	fresh water sediment	109	mg/kg dry weight
	water	marine water sediment	109	mg/kg dry weight
	soil	-	29.9	mg/kg dry weight
	sewage treatment plant	-	0.33	mg/L
	secondary poisoning	-	0.12	mg/kg food
2	copper		7440-50-8 231-159-6	
	water	fresh water	7.8	µg/L
	water	marine water	5.2	µg/L
	water	fresh water sediment	87	mg/kg
	water	marine water sediment	676	mg/kg
	soil	-	65	mg/kg
	sewage treatment plant	-	230	µg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified. Respirator with particulate filter (filter cat. P 3)

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile rubber		
Material thickness	>=	0.35	mm
Breakthrough time	>	480	min

Other

Wear fully closed, flame retardant clothing. Closed ESD safety footwear (ESD according to EN 61340-4-3 or equivalent).

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation		
solid		
Form/Colour		
Powder		
grey		
Odour		
odourless		
pH value		
No data available		

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Boiling point / boiling range				
No data available				
Melting point/freezing point				
Value	1440	- 1500	°C	
Decomposition temperature				
No data available				
Flash point no data available				
Ignition temperature				
No data available				
Explosive properties				
Dust may form explosive mixture in air.				
Flammability				
No data available				
Lower explosion limit Not applicable				
· · · ·				
Upper explosion limit				
Not applicable				
Vapour pressure				
No data available				
Relative vapour density				
No data available				
Relative density				
No data available				
Density Value	3.6	- 4.3	g/cm ³	
Value	3.0	- 4.3	g/cm²	
Solubility in water				
Comments	insoluble			
Solubility				
No data available				
Partition coefficient n-octanol/water (log	value)			
No data available				
Kinematic viscosity				
No data available				
Particle characteristics				
Particle size distribution: 17 -56 µm				
.2 Other information				
Other information				
No data available				

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

9

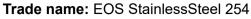
No data available.

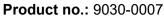
10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

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Possible hydrogen formation upon contact with acids.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Spontaneously inflammable when finely dispersed. Hydrogen gas is released upon contact with mineral acids and may form explosive compounds with air.

- **10.5** Incompatible materials Acids; Oxidizing agents
- **10.6 Hazardous decomposition products** In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity				
No Substance name		CAS no.		EC no.
1 nickel powder; [particle diameter < 1	mm]	7440-02-0	2	231-111-4
LD50	>	9	000	mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			
Acute dermal toxicity				
No data available				
Acute inhalational toxicity				
No data available				
Skin corrosion/irritation				
No Substance name		CAS no.		EC no.
1 nickel powder; [particle diameter < 1	mm]	7440-02-0	2	231-111-4
Species	rabbit			
Method	OECD 404			
Source	ECHA			
Evaluation	non-irritant			
Serious eye damage/irritation				
No Substance name		CAS no.		EC no.
1 nickel powder; [particle diameter < 1	<u>mm]</u>	7440-02-0	2	231-111-4
Species	rabbit			
Method	OECD 405			
Source	ECHA			
Evaluation	non-irritant			
Respiratory or skin sensitisation				
No Substance name		CAS no.		EC no.
1 nickel powder; [particle diameter < 1		7440-02-0	2	231-111-4
Route of exposure	Skin			
Species	Human			
Source	Manufacture	r		
Evaluation	sensitizing			
Evaluation/classification	Based on av	ailable data, the cla	assification c	riteria are met.
Germ cell mutagenicity				
No data available				
Reproduction toxicity				
No data available				
Carcinogenicity				
No data available				
STOT - single exposure				

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No c	No data available						
STO	STOT - repeated exposure						
No	Substance name		CAS no.		EC no.		
1	nickel powder; [particle diameter < 1 mm]	7440-02-0		231-111-4		
Rou	te of exposure	oral					
NOA	AEL			2.2	mg/kg		
Spe	cies	rat					
Meth	nod	OECD 451					
Sou	Source Manufacturer						
Eval	uation/classification	Based on ava	ilable data, the	classification	criteria are met.		

Aspiration hazard

No data available

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact may cause mechanical irritation through dust particles. Skin contact may cause mechanical irritation through dust particles.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation of dusts may irritate the respiratory tract. Danger of acute health hazards by longer exposure. Possibility of sensitisation through skin contact.

11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	Toxicity to fish (acute)						
No	Substance name	CAS no.		EC no.			
1	copper	7440-50-8		231-159-6			
LC50			0.035	mg/l			
Duration of exposure			96	h			
Spee	cies	Danio rerio	Danio rerio				
Method		ISO TC 147/SC 5/WG3 (se	ISO TC 147/SC 5/WG3 (secretariat 6)				
Sour	rce	ECHA / Read across	ECHA / Read across				

Toxi	Toxicity to fish (chronic)				
No	Substance name	CAS no.		EC no.	
1	nickel powder; [particle diameter < 1 mm] 7440-02-0		231-111-4	
NOEC			21.7	mg/l	
Duration of exposure			28	day(s)	
Species		Cyprinodon variegatus			
Meth	nod	ASTM 2004, APHA 1998			
Sour	rce	ECHA			
2	copper	7440-50-8		231-159-6	
NOEC			0.023	mg/l	
Duration of exposure			7	day(s)	
Species		Pimephales promelas			
Method		OECD 204			
Source		ECHA			

Toxi	Toxicity to Daphnia (acute)						
No	Substance name	CAS n	0.	EC no.			
1	copper	7440-5	50-8	231-159-6			
EC50		0.034	- 0.792	mg/l			
Duration of exposure			48	h			



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		ecies	Daphnia magn	а			
		thod urce	OECD 202 ECHA				
	Το	kicity to Daphnia (chronic)	•				
		Substance name		CAS no.		EC no.	
	1	nickel powder; [particle diameter < 1 mm		7440-02-0		231-111-4	
	NO	EC	ſ		152.6	µg/l	
		ration of exposure			48	h	
		ecies	Dendraster ex	centricus			
	Me	thod	ASTM E1563-	95			
	So	urce	ECHA				
	2	copper		7440-50-8		231-159-6	
	NO	EC			0.032	mg/l	
	Du	ration of exposure			7	day(s)	
	Spe	ecies	Daphnia magn	а			
	Me	thod	OECD 211				
I	Tax	visity to slass (souts)					
		kicity to algae (acute)		CAS no.		EC no	
	1 1	Substance name		CAS no. 7440-02-0		EC no. 231-111-4	
	EC	nickel powder; [particle diameter < 1 mm] >	/440-02-0	81.5		
		ration of exposure	-		61.5 72	μg/l h	
			Psoudokirchno	riolla cubcanit		11	
Species Pseudokirchneriella subcapitata Method OECD 201							
	Source		ECHA				
	000		2017/				
		kicity to algae (chronic)					
	No	data available					
	Ba	cteria toxicity					
		data available					
12	.2	Persistence and degradability No data available.					
12	.3	Bioaccumulative potential					
		No data available.					
12	2.4 Mobility in soil No data available.						
12		Results of PBT and vPvB assessment					
		sults of PBT and vPvB assessment					
	PB	T assessment	The study doe Regulation (E0			d according to Annex XIII of	
	vP۱	/B assessment		s not need to b	be conducted	d according to Annex XIII of	

12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information

The product should not be allowed to enter drains or water courses. Ecological data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product



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Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

- **14.3 Transport ICAO-TI / IATA** The product is not subject to ICAO-TI / IATA regulations.
- **14.4 Other information** No data available.
- **14.5** Environmental hazards Information on environmental hazards, if relevant, please see 14.1 - 14.3.
- **14.6 Special precautions for user** No data available.
- 14.7 Maritime transport in bulk according to IMO instruments Not relevant

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	chromium	7440-47-3	231-157-5	75
2	copper	7440-50-8	231-159-6	75
3	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4	27, 75
4	sulfur	7704-34-9	231-722-6	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.



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SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164. National Threshold Limit Values of the corresponding countries as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case. The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H400 H411 Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.